PATENT COOPERATION TREATY

ТО	FROM the INTERNATIONAL BUREAU of the WORLD INTELLECTUAL PROPERTY ORGANIZATION						
GAMBRELL, James, B. Pravel, Gambrell, Hewitt,	NOTIFICATION OF CORRECTION, CANCELLA- TION OR WITHDRAWAL OF PRIORITY CLAIM						
Kimball & Krieger 1177 West Loop South Suite 1010	issued pursuant to PCT Rules 4.10(d) , 32bis and Administrative Instructions, Sections 402(c) and (d) and 415						
Houston, TX 77027 United States of America	DATE OF MAILING 19 May 1988 by the International Bureau (19.05.88)						
	APPLICANT'S OR AGENT'S FILE REFERENCE CIP81297PC						
	NTERNATIONAL APPLICATION						
International Application No.	International Filing Date						
PCT/US87/02958	09 November 1987 (09.11.87)						
Applicant (Name)							
UNIVERSITY OF HOUSTON-UNIV	ERSITY PARK						
NOTIFI	CATION						
The applicant is hereby notified tha	t the International Bureau has						
taken the following action in respec							
international application:							
1. X The recording of the filing the priority of which is clarge to the priority of which is clarge to the priority of which is clarge.	date of the earlier application, imed, has INMMONTANEW With rected / to indicate the following						
.27 January 1987 (27.01.87)	ex officio						
	63						
_(corrected filing date)	Gancelled or offices						
The priority claim has been	concerned ex criticis.						
3. The priority claim has been applicant's request.	cancelled in accordance with						
The priority claim has been with the applicant's request	noted as withdrawn in accordance received on						
In the case where multiple priorities have been claimed, the above action related to the following particular priority claim(s): 26 January 1987 (26.01.87)							
A copy of this notification has been sent to the receiving Office, the International Searching Authority and							
X the designated Offices							
the International Preliminar	y Examining Authority .						
THE INTERNATIONAL BUREAU OF THE WORL	D INTELLECTUAL PROPERTY ORGANIZATION						
Mailing Address WIPO	Nuthanina Officer						
34, chemin des Colombettes 1211 Geneva 20 Switzerland	Y. Coeckelbergs						
Porm PCT/IE/317 (January 1995)							

PATENT COOPERATION TREATY

NOTIFICATION
CONCERNING SUBMISSION
OF PRIORITY DOCUMENT
issued under Section 411 of
the PCT Administrative
Instructions

INTERNATIONAL APPLICATION No. PCT/US87/02958

To:

GAMBRELL, James, B.
Pravel, Gambrell, Hewitt, Kimball & Krieger
1177 West Loop South
Suite 1010
Houston, TX 77027
ÉTATS-UNIS D'AMÉRIQUE

DATE OF MAILING OF THIS NOTIFICATION: 19 May 1988 (19.05.88)

APPLICANT'S OR AGENT'S FILE REFERENCE: CIP81297PC |From:

The International Bureau of WIPO 1211 Geneva 20 Switzerland

INTERNATIONAL FILING DATE:

09 November 1987 (09.11.87)

PRIORITY DATE(S) CLAIMED:

12 January 1987 (12.01.87) 27 January 1987 (27.01.87) 06 February 1987 (06.02.87) 26 March 1987 (26.03.87)

DATE OF RECEIPT OF PRIORITY DOCUMENT(S):

29 March 1988 (29.03.88)

The priority document(s) received is (are) a copy (copies) of the application(s) filed on 12 January 1987 (12.01.87) 06 February 1987 (06.02.87) 27 January 1987 (27.01.87)

A copy of this Notification is being sent to each designated Office.

Y. Coeckelbergs (Authorized Officer)

Form PCT/IB/304 (January 1985)



PATENT COOPERATION TREATY INTERNATIONAL APPLICATION No. PCT/US87/02958 NOTIFICATION CONCERNING SUBMISSION OF PRIORITY DOCUMENT issued under Section 411 of the PCT Administrative GAMBRELL, James, B. Pravel, Gambrell, Hewitt, Kimball & Krieger Instructions 1177 West Loop South Suite 1010 Houston, TX 77027 ÉTATS-UNIS D'AMÉRIQUE DATE OF MAILING OF THIS NOTIFICATION: 15 June 1988 (15.06.88) APPLICANT'S OR AGENT'S The International Bureau of WIPO FILE REFERENCE: | 1211 Geneva 20 CIP81297PC Switzerland INTERNATIONAL FILING DATE: 09 November 1987 (09.11.87) PRIORITY DATE(S) CLAIMED: 12 January 1987 (12.01.87) 27 January 1987 (27.01.87) 06 February 1987 (06.02.87) O 26 March 1987 (26.03.87) DATE OF RECEIPT OF PRIORITY DOCUMENT(S): 0 9 NOVEMBER 1987 (0 9. 11. 87) The priority document(s) received is (are) a copy (copies) of the application(s) filed on ^Y 26 MARCH 1987 (26.03.87) A copy of this Notification is being sent to each designated Office.

L. Schwarz (Authorized Officer)

Form PCT/IB/304 (January 1985)



INTERNATIONAL APPLICATIONS

COMMUNICATION OF

under PCT Article 20

DATE OF MAILING 14 July 1988 (14.07.88)

TO

Japanese Patent Office Tokyo

in its capacity as a designated Office

From : The International Bureau of WIPO 1211 Geneva 20 Switzerland

Pursuant to PCT Article 20 and PCT Rule 47, the International Bureau herewith transmits copies of the international applications having the following international application and international publication numbers:

INT. APPL. NO.	INT. PUBL. NO.	INT. APPL. NO.	INT. PUBL. NO.
PCT/AT87/00073	WO88/05208	PCT/DE87/00611	WO88/04950
PCT/AT87/00078	WO88/04892	PCT/DE88/00001	WO88/05122
PCT/AT87/00079	WO88/04893	PCT/DE88/00002	WO88/05126
PCT/AU86/00396	WO88/04903	PCT/DE88/00003	W088/05124
PCT/AU87/00006	WO88/05169	PCT/DE88/00004	WO88/04972
PCT/AU87/00406	WO88/05120	PCT/DE88/00008	WO88/05134
PCT/AU87/00437.	WO88/04983	PCT/DK87/00162	WO88/05024
PCT/AU87/00442	WO88/04944	PCT/DK87/00164	WO88/05023
PCT/AU87/00443	WO88/05035	PCT/DK88/00001	WO88/04886
PCT/AU87/00444	WO88/05131	PCT/DK88/00002	WO88/04902
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PCT/AU87/00447	WO88/05021	PCT/DK88/00004	WO88/05105
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PCT/AU88/00003	WO88/04896	PCT/EP87/00728	WO88/05004
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Form PCT/IB/349 (June 1983)

63.7.18

C. Grassioulet
(Authorized Officer)

RECORD COPY

INTERNATIONAL APPLICATION UNDER THE PATENT COOPERATION TREATY

- 1	
	INTERNATIONAL PCT/US 87/02958
	INTERNATIONAL (9 NOV 1987
	(Stamper of lectiving Office and PCT International Application
	Applicant's or Agent's File Reference (indicated by applicant if desired) CIP81297POT7

REQUEST	TO THE POUR								
THE UNDERSIGNED REQUESTS THAT THE PRESENT INTERNATIONAL APPLICATION BE PROCESSED ACCORDING TO THE PATENT COOPERATION TREATY	(Stamps Name of fectiving Office and PCT International Application								
	Applicant's or Agent's File Reference (indicated by applicant if desired) CIP81297POT 7								
Box No. I TITLE OF INVENTION									
SUPERCONDUCTIVITY IN SQUARE-1	PLANAR COMPOUND SYSTEMS								
Box No. II APPLICANT (WHETHER OR NOT ALSO INVENTOR); DESIGNATED STATES FOR WHICH HE/SHE/IT IS APPLICANT. Use this box for indicating the applicant or, if there are several applicants, one of them. If more than one person (includes, where applicable, a legal entity) is involved, continue in Box No. III.									
The person identified in this box is (check one only): app	licant and inventor* XX applicant only								
Name and address:** University of Houston-University 4800 Calhoun Road Houston, Texas 77004 United States of America	ty Park								
Telephone number: 713/749-3412Telegraphic address: (including area code)	•								
Country of nationality: United States of Americ	a America States of								
The person identified in this box is applicant for the purposes of (a check one only):								
X all designated States all designated States except the United States of America	the United States the States indicated in the "Supplemental Box"								
Box No. III FURTHER APPLICANTS, IF ANY; (FURTHER) INVENTORS, IF ANY; DESIGNATED STATES FOR WHICH THEY ARE APPLICANTS (IF APPLICABLE). A separate sub-box has to be: led in in respect of each person (includes, where applicable, a legal entity). If the following two sub-boxes are insufficient, continue in the "applemental Box," (giving there for each additional person the same indications as those requested in the following two sub-boxes) or by sing a "continuation sheet."									
The person identified in this sub-box is (check one only):	applicant and inventor applicant only XX inventor only								
Name and address:** CHU, Ching-Wu									
4800 Calhoun Road									
Houston, Texas 77004 United States of America	·								
If the person identified in this sub-box is applicant (or applicant a	nd inventors indicate also:								
Country of nationality:	Country of residence:***								
and whether that person is applicant for the purposes of (check on	e only):								
all designated States all designated States except the United States of America	the United States the States indicated in the "Supplemental Box"								
The person identified in this sub-box is (check one only): Name and address:**	applicant and inventor applicant only inventor only								
If the person identified in this sub-box is applicant (or applicant and inventor), indicate also:									
Country of nationality:	Country of residence:								
and whether that person is applicant for the purposes of (check one only):									
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If the person indicated as "applicant and inventor" or as "inv give the necessary indications in the "Supplemental box."	entor only" is not an inventor for the purposes of all the designated States.								
Indicate the name of a natural person by giving his/her family neits full official designation. In the address, include both the p									
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	ox No. IV AGENT (IF AN 1) OR COMMO! ERTAIN CASES) A common representative oppointed; the common representative must be one he following person (includes, where applicable, to hehalf of the applicant(s) before the competent				,			30101	es epps	icanic f	ם זו ספיי	O agen	t is or h	h
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Supplemental Box. Use this box in the following cases:

- (i) if more than three persons are involved as applicants and/or inventors; in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III;
- (ii) if, in Box No. II or any of the sub-boxes of Box No. III, the indication "the States indicated in the "Supplemental Box." is checked; in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may the purposes of which he/she/it is applicant;
- (iii) If, in Box No. Illor any of the sub-boxes of Box No. III. a person indicated as "applicant and inventor" or "inventor only" is not inventor for the purposes of all designated States or for the purposes of the United States of America; in such case, write "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor and, next to such name, the country or countries (or EP or OA, if applicable) for the purposes of which the named person is inventor;
- (iv) if there is more than one agent and their addresses are not the same; in such case, write "Continuation of Box No. IV" and indicate for each additional agent the same type of information as required in Box No. IV;
- (v) If, in Box No. V, the name of any country (or OAPI) is accompanied by the indication "patent of addition," "certificate of addition," or or "continuation in part"; in such case, write "Continuation of Box No. V" and the name of each country involved (or OAPI), and after the name of each such country (or OAPI), the number of the parent title or parent application and the date of grant of parent title or filing of
- (vi) If there are more than three earlier applications whose priority is claimed; in such case, indicate "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI;
- (vii) if, in any of the Boxes, the space is insufficient to furnish all the information; in such case, write "Continuation of Box No. ..." [indicate the number of the Box] and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient.

CONTINUATION OF BOX NO. (VI 26.03.87)

(4) US

26 March 1987 032,041

If this Supplemental Box is not used, this sheet need not be included in the Request.

Sheet number A PCT/US 87 / 72958

Box No. VI PRIORITY CLA	AIM (IF ANY). The priority of the follo	owing earlier application(s) is here	by claimed:
Country (country in which it was filed if national application; one of the countries for which it was filed if regional or international application)	_	Application No.	Office of Filing (fill in only if the earlier application is an international application or a regional application)
(I) US —	12 January 1987	002,089	
⁽²⁾ US	25 January 1987	006,991	
(3) US	(06,02,87) 06 February 1987	012,205	
When the earlier application was the applicant may, against payme the receiving Office is here earlier application/of the earlier application/of the earlier application/of the earlier application was the ap	fied with the Office which, for the pure that of the required fee, ask the following by requested to prepare and transmit that applications identified above by the RCH (IF ANY). Fill in where a sear been requested (or completed) and the been requested (or completed) and the	o the International Bureau a certi he numbers (insert the applicable	fied copy of the above-mentioned numbers) 1;2;3;4
to the extent possible on the re-	sults of the said earlier search. Identify or by reference to the search request.	such search or request either by	to base the international search, reference to the relevant applica-
number and country (or regional Office) of other application:		International/regional/national filing date	٠.
Date of request for search:		Number (if available) given to search request:	•
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University of H	President for Busi Ouston - Universit ned on behalf of any applicant by an age the case it is desired to make use of a gen orm.	y Park	pointing the agent and signed by with the receiving Office), a copy
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This international application sheets:	contains the following number of	checked below:	
request description	4 sheets 2	copy of general power of a	ttorney
3. claims			
abstract drawings	1 sheets 5.	receipt of the fees paid or X cheque for the payment of	
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Figure number c to accompany the abstract for	of the drawings (if any) is suggested.	$\overline{\Box}$	
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 Corrected date of actual receipt or drawings completing the put 	t due to later but timely received paper rported international application:	· ·	
3. Date of timely receipt of the re-	quired corrections under Article 11 of t	the PCT:	
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 Europäisches Patentamt

Eumhean Pat

Offic européen des brevets

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Generaldirektion 2

GRANDE BRETAGNE

Directorate General 2

Direction générale 2

Telex 5 23 656 epmu d

Milhench, Howard Leslie R.G.C. Jenkins & 26 Caxton Street London SW1H ORJ

R. G. C. JENKINS & CO. 2 0 MAY 1991 CHARTERED PATENT AGENTS

Datum/Date

16. 05. 91

Anmeldung Nr. /Application No. /Demande nº //Patent Nr. /Patent No. /Brevet nº Zeichen/Rel/Ret 87309081.5-2208/ J.18281 EP Anmelder/Applicant /Demandeur//Patentinhaber /Proprietor/Titulaire

SEMICONDUCTOR ENERGY LABORATORY CO., LTD.

Communication pursuant to Article 96(2) and Rule 51(2) EPC

The /further/ examination of the above-identified application has revealed that it does not meet the requirements of the European Patent Convention for the reasons enclosed herewith. If the deficiencies indicated are not rectified the application may be refused pursuant to Article 97(1) EPC.

You are invited to file your observations and insofar as the deficiencies are such as to be rectifiable, to correct the indicated deficiencies within a period

of __four___

from the notification of this communication, this period being computed in accordance with Rules 78(3) and 83(2) and (4) EPC.

Amendments to the description, claims and drawings are to be filed where appropriate within the said period in three copies on separate sheets (Rule 36(1) EPC).

Failure to comply with this invitation in due time will result in the application being deemed to be withdrawn (Article 96(3) EPC).

W. Korb

Primary examiner

for the Examining Division

Telephone numbers:

Primary examiner

2284 (089) 2399-

(substantive examination)

(089) 2399-

Formalities officer (Formalities including extension of time limits)

Examiners' clerk

(089) 2399-

page/s reasons (Form 2044/2906)

R gistered letter

REPLY DUE:

9))

Datum Date Date 16.05.91

Blatt Sheet Feuille

1

Anmelde-Nr.: Application No.: 87 309 081.5

The examination is being carried out on the following application documents:

The application documents as originally filed

- The application does not meet the requirements of Article 84 EPC, because claims 3, 20, 21 are not clear.
- 2. A general formula of the type as claimed in Claim 3 is usually used to indicate a mixed crystal. B and B' can apparently be the same alkaline earth elements only differing in their contents x and x' in the different components of the mixed crystal. It is not clear from Claim 3 how the general formula for the mixed crystal is included by the general formula of Claim 1 to which claim 3 refers, in particular in view of the limits for x, y, z and w as set forth in Claim 1.
- 3. "A method for producing a superconducting ceramic" as claimed in Claim 20 must be construed as meaning merely a method suitable for the stated purpose (see EPO Guidelines C-III, 4.8). Therefore, Claim 20 should read "a method of producing a superconducting ceramic".

 Furthermore, "carbides" should apparently read "carbonates" since no support for a use of carbides is given by the description, in particular the examples.
- 4. From Claim 21, it is not clear how the relative term "large crystalline particles" is limiting the subject-matter claimed with regard to other polycrystalline perovskite-like structures.

Datum

16. 05. 91

Blatt Sheet Feuille 2

Anmelde-Nr.: Application No.: Demande nº

87 309 081.5

The following documents (D) are mentioned for the first 5. time in this communication; the numbering will be adhered to in the rest of the procedure:

D1 = Z. Phys. B - Condensed Matter 66, pp. 141-146, 10.03.87, C. Politis and J. Geerk

D2 = Phys. Rev. Lett., Vol. 58, no. 9, pp. 908-910, 02.03.87, M.K. Wu et al.

D3 = EP-A-0 274 421

D4 = EP-A-0 274 407

D5 = WO-A-88/07 264

D6 = EP-A-0 282 360

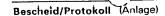
It should be noted that documents D3-D6 represent a state of the art according to Article 54 (3) EPC.

The present application does not meet the requirements 6. of Articles 52(1) and 54(1) and (2) EPC because the subject-matter of claims 1-5, 7, 9, 12-17, 20, 21 is not new.

It should be noted that the novelty Claims 3, 20 and 21 is objected to insofar as the present text of these claims can be understood.

The document Di discloses a superconducting ceramic of 7. the formula La Sr Ba Cu 0 (see D1, page 142, col. 2, lines 17-22 and page 144, column 1, line 23-column 2, line 3).

It is apparent that the above formula can as well be expressed by $[La_{0.9}(Sr,Ba)_{0.1}]_2$ Cu 0_4 and with La = A, (Sr, Ba) = B the material known from D1 falls within the scope of the materials according to the formula claimed in Claim 1. Therefore, the subject-matter as claimed in Claim 1 is not new, contrary to Articles 52 (1) and 54



Communication/Minutes (Annex)

Notification/Proces-verbal (Annexe)

Datum Date Date

16.05.91

Blatt Sheet Feuille 3

Anmelde-Nr.: Application No.: Demande n°:

le-Nr.: 87 309 081.5

(1) and (2) EPC. Furthermore, materials falling within the scope of Claim 1 are also known from the documents D3 (see e.g. D3, pages 5, 6; tables 1, 2), D4 (see D4, page 5, lines 10-45; pages 7, 8; table; and Claim 1) and D5 (see D5, page 14; table; and Claim 1). Additionally, the general formula as a whole can directly and unambiguously be derived from D6 (see e.g. D6, page 2, column 2, lines 9-19 and page 4, column 6, lines 33-43). A small range disclaimed in Claim 1 from the total range of that formula due to B being more than one alkaline earth element when A is one rare earth element merely in order to exclude well-known materials (see e.g. D1, abstract and D2, abstract and page 908, column 1, lines 1-20) does not result in a particular selection of materials which must be considered as new with respect to the disclosure of D6. The formula disclosed in D6 represents the same variety of materials as claimed in Claim 1 in the case where A is more than one rare earth element. Moreover, from the examples mentioned in D6 at page 2, column 2, lines 9-19 and page 4, column 6, lines 43-61 it is implicit to a skilled man that compounds according to the general formula in question can in any case contain two or more alkaline earth elements, in particular when A is one rare earth element. Therefore, the subject-matter as claimed in Claim 1 is also not new with respect to one of the documents D3, D4 or D6.

8. To a skilled man, it is implicit, that the general formula expressed in D6 (see D6, page 4, column 6; lines 33-43) includes mixed phases. The examples mentioned in D6 at page 2, column 2, lines 9-19, in particular the YBCO-system, the BLCO-system or the SLCO-system represent mixed phase compound systems which can be expressed by a motified general formula as claimed in Claim 3. Thus the subject-matter of that claim is directly derivable from D6 and Claim 3 lacks novelty

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required by Articles 52 (1) and 54 (1) and (2) EPC.

- To a skilled man knowing the general formula expressed 9. in D6 (see D6, page 4, column 6, lines 33-43) it is implicit that this formula embraces the sub-species according to the general formulas claimed in Claims 12, 14 and 16. The examples mentioned in D6 at page 2, column 2, lines 9-19 and page 4, column 6, lines 43-61 indicate such sub-species. Therefore, Claims 12, 14 and 16 are considered not new with respect to the disclosure Furthermore, it should be noted that a material known from D1 (see item 7 above) falls within the scope of materials according to the formula claimed in Claim 12 and materials known from the documents D3, D4 or D5 (see item 7 above) must be regarded as materials according to the formula claimed in Claim 16 such that Claim 12 is also not new with respect to D1 and Claim 16 is also not new with respect to one of the documents D3, D4 or D5.
 - 10. It should be noted that there is no doubt that the entire variety of materials falling within the scope of one of the general formulas as claimed in Claims 1, 3, 12, 14 and 16 cannot be regarded as being disclosed in the present application in a manner sufficiently clear and, above all, complete. Thus, the requirements of Article 83 EPC are not met.
 - 11. The values for y, z, w or y', z', w' respectively as claimed in Claims 4, 13, 15 and 17 are as well known from D6 (see D6, page 4, column 6, lines 33-43).

 Therefore, the subject-matter of these claims is now new with respect to D6.
 - 12. A superconducting ceramic having the stoidiometric formula Y Ba Ca Cu $_3$ $_{6-8}$ is known from D4 (see D4; pages

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- 7, 8; table; example 15 and page 3, lines 11-48). Therefore, the subject-matter claimed in Claim 7 is not new. Since that claim refers to Claim 5 and, indirectly, to Claims 4 and 3 and represents a particular material selected from the scope of the claims to which it refers, moreover Claims 3-5 must be considered as not new with respect to the disclosure of D4. In this connection, Claim 9 appears to be as well not new with respect to the examples disclosed in D4 and comprising more than one rare earth element (see D4; pages 7, 8; table).
- 13. It should be noted that the documents D1, D2, either standing alone or in combination, appear to be relevant in view of inventive step for example with respect to claims 6, 8, 10, 11, 18 and 19. The materials according to these claims do not appear to show any surprising effect, for example a particularly high critical transition temperature departing from state of the art materials as e.g. known from D2.
- 14. The method claimed in Claim 20 can directly and unambiguously be derived from any of the documents cited in view of a lack of novelty in above items (see e.g. D1, pages 141 and 142, "Experimental Procedures"). Therefore, Claim 20 lacks novelty required by Articles 52 (1) and 54 (1) and (2) EPC.
- 15. A ceramic comprising two or more rare earth elements and/or two or more alkaline earth elements as claimed in Claim 21 is e.g. known from D4 (see item 12 above). Since a skilled man producing such a composition would inevitably arrive at a result falling within the terms of Claim 21 an objection of lack of novelty must be raised. Claim 21 is considered to be not new, e.g. with respect to D4.

Bescheid/Protokoll (Anlage)

Communication/Minutes (Annex)

No ation/Proces-verbal (Annexe)

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16. If the applicant wants to proceed with the application, it should be noted that any amendments made must be identified if not evident and their base in the original application has to be indicated (see EPO Guidelines E-II, 1). The applicant should also indicate in the letter of reply the difference vis-à-vis the state of the art and the significance thereof if a new claim is filed which the applicant regards to present some particular patentable matter.